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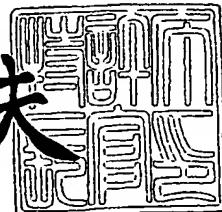
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【プルーフの要否】 要

【書類名】 明細書

【発明の名称】 ルート情報送信方法と装置

【特許請求の範囲】

【請求項 1】 送信側が、経路の情報を要求した受信側に対して、前記経路の上に並ぶ複数の地点の位置データに算術加工を施して統計的に偏りを持つデータに変換し、前記データを可変長符号化して得られた圧縮データを提供し、

前記受信側が、前記圧縮データを復号化して前記位置データを復元し、前記経路を特定することを特徴とするルート情報送信方法。

【請求項 2】 前記受信側は、前記送信側に現在地と目的地とを示して前記目的地までの経路の情報を要求し、前記送信側は、前記目的地までの経路を算出して、前記経路に関する前記圧縮データを前記受信側に提供することを特徴とする請求項 1 に記載のルート情報送信方法。

【請求項 3】 前記受信側は、前記送信側に範囲を指定して走行軌跡の情報を要求し、前記送信側は、蓄積している過去の走行軌跡情報の中から前記範囲に含まれる走行軌跡を抽出して、前記走行軌跡に関する前記圧縮データを前記受信側に提供することを特徴とする請求項 1 に記載のルート情報送信方法。

【請求項 4】 前記送信側は、前記経路に対して等距離リサンプルを行い、得られたサンプリング点の位置データを偏角で表し、前記偏角を可変長符号化して前記圧縮データを得ることを特徴とする請求項 1 に記載のルート情報送信方法。

【請求項 5】 前記送信側は、前記経路に対して等距離リサンプルを行い、得られたサンプリング点の位置データを偏角予測差分値で表し、前記偏角予測差分値を可変長符号化して前記圧縮データを得ることを特徴とする請求項 1 に記載のルート情報送信方法。

【請求項 6】 前記受信側は、復元された前記位置データを用いて、自装置で保有するデジタル地図データとのマッチングを取り、保有するデジタル地図データの上で対象道路を特定することを特徴とする請求項 1 から請求項 5 のいずれかに記載のルート情報送信方法。

【請求項 7】 経路の情報の要求を受信する受信手段と、前記経路の上に並

ぶ複数の地点の位置データに算術加工を施して統計的に偏りを持つデータに変換し、前記データを可変長符号化して圧縮データを生成するエンコード手段と、前記圧縮データを提供する送信手段とを備えることを特徴とする経路情報提供装置。

【請求項8】 前記受信手段で受信した現在地及び目的地の情報に基づいて前記目的地までの経路を算出するルート算出手段を具備し、前記エンコード手段は、前記ルート算出手段により算出された前記経路に関する前記圧縮データを生成することを特徴とする請求項7に記載の経路情報提供装置。

【請求項9】 走行軌跡の情報を受信して蓄積する蓄積手段と、前記蓄積手段に蓄積された走行軌跡の中から前記受信手段で受信した指定範囲に含まれる走行軌跡を抽出する走行ルート情報抽出手段とを具備し、前記エンコード手段は、前記走行ルート情報抽出手段により抽出された前記走行軌跡に関する前記圧縮データを生成することを特徴とする請求項7に記載の経路情報提供装置。

【請求項10】 経路情報の提供を要求する送信手段と、提供された圧縮データを受信する受信手段と、前記圧縮データを復号化して経路の上に並ぶ複数の地点の位置データを復元する圧縮データデコード手段とを備えることを特徴とする経路情報受信装置。

【請求項11】 前記送信手段から現在地及び目的地の情報を送信し、提供された前記圧縮データから復元した前記位置データを用いて、デジタル地図とのマッチングを行い、前記経路を前記デジタル地図上で特定し、前記現在地から目的地までの経路を特定することを特徴とする請求項10に記載の経路情報受信装置。

【請求項12】 前記送信手段から範囲を指定する情報を送信し、提供された前記圧縮データから復元した前記位置データを用いて、デジタル地図とのマッチングを行い、前記経路を前記デジタル地図上で特定し、前記範囲に含まれる走行軌跡を特定することを特徴とする請求項10に記載の経路情報受信装置。

【発明の詳細な説明】

【0001】

【発明の属する技術分野】

本発明は、目的地などへの経路を受信側に伝えるルート情報送信方法と、その方法を実施する装置に関し、特に、経路について正確に、且つ、できるだけ少ないデータ量で伝えることを可能にするものである。

【0002】

【従来の技術】

従来から、GPS受信機やデジタル地図を具備し、目的地を設定すると、現在地から目的地までの推奨移動経路を算出して表示する車両用ナビゲーション装置が知られている。さらに、現在地と目的地を車載カーナビゲーション装置から情報センタに送信し、前記情報センタでは、交通状況を加味した上で推奨ルートを算出し、車載用ナビゲーション装置にそのルートを提供するシステムが知られている。

また、一方、従来の車両用ナビゲーション装置の多くは、細い道や複雑に入組んだ道を避けて効率的かつ分かり易い経路案内を行うために、経路案内に利用する案内対象道路を、道幅の広い道路、例えば、県道以上の道路（県道、国道、有料道路等）や道幅が5.5m以上の道路に限定している。そのため、最終目的地が案内対象道路から離れている場合には、案内対象道路上の目的地周辺地点までの推奨移動経路は算出され、表示されるが、そこから最終目的地までの経路は表示されないことがある。

【0003】

下記特許文献1には、こうした点を改善するため、車両用ナビゲーション装置が情報センタに現在地及び最終目的地の情報を送り、目的地周辺地点から最終目的地までの経路情報を情報センタより取得するシステムが開示されている。このシステムでは、情報センタが、受信情報に基づいて、車両用ナビゲーション装置で探索可能な目的地周辺地点を予測し、この目的地周辺地点から最終目的地に至る経路を算出して、この経路情報を車両用ナビゲーション装置に送信する。車両用ナビゲーション装置は、自ら求めた現在地から目的地周辺地点までの経路を表示し、目的地周辺地点から最終目的地までは、情報センタより受信した経路を表示する。

【0004】

TI Technologies and economics for protein production in **transgenic** animal milk

L3 ANSWER 65 OF 85 CABA COPYRIGHT 2004 CABI on STN

TI Technologies and economics for protein production in **transgenic** animal milk.

L3 ANSWER 66 OF 85 CIN COPYRIGHT 2004 ACS on STN

TI Clinic news

L3 ANSWER 67 OF 85 CIN COPYRIGHT 2004 ACS on STN

TI Genzyme **Transgenics** moves forward with cancer vaccines

L3 ANSWER 68 OF 85 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN

TI Therapeutic proteins from the **milk of transgenic** livestock: Biosynthesis, purification and safety issues.

L3 ANSWER 69 OF 85 CAPLUS COPYRIGHT 2004 ACS on STN

TI **Transgenic** multicellular eukaryotes expressing genes for enzymes of post-translational modification of proteins

L3 ANSWER 70 OF 85 CAPLUS COPYRIGHT 2004 ACS on STN

TI **Antithrombin** III with altered glycosylation pattern and increased clearance rate prepared with **transgenic** mammal

L3 ANSWER 71 OF 85 CAPLUS COPYRIGHT 2004 ACS on STN

TI α 1-antitrypsin variants carrying **thrombin**-specificity peptides from **antithrombin** III that are inactive against activated protein C

L3 ANSWER 72 OF 85 CIN COPYRIGHT 2004 ACS on STN

TI **Transgenic** "pharming" drugs in clinical trials

L3 ANSWER 73 OF 85 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 32

TI High-level expression of recombinant human fibrinogen in the **milk** of **transgenic** mice

L3 ANSWER 74 OF 85 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 33

TI Activation of recombinant human protein C

L3 ANSWER 75 OF 85 CABA COPYRIGHT 2004 CABI on STN

TI [What's happening outside France with regard to goat **milk**?]. Qualites du lait de chevre: que se passe-t-il au-delà de nos frontières?.

L3 ANSWER 76 OF 85 CIN COPYRIGHT 2004 ACS on STN

TI Clinic news

L3 ANSWER 77 OF 85 CIN COPYRIGHT 2004 ACS on STN

TI Activities at a glance

L3 ANSWER 78 OF 85 CIN COPYRIGHT 2004 ACS on STN

TI Clinic News

L3 ANSWER 79 OF 85 CIN COPYRIGHT 2004 ACS on STN

TI GTN strategic partners report:

L3 ANSWER 80 OF 85 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN

TI Tissue specific and species differences in the glycosylation pattern of **antithrombin** III.

L3 ANSWER 81 OF 85 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN

TI Glycosylation patterns of human proteins expressed in **transgenic** goat milk.

L3 ANSWER 82 OF 85 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
DUPLICATE

TI Production of biomedical proteins in the milk of **transgenic** dairy cows: The state of the art

L3 ANSWER 83 OF 85 CIN COPYRIGHT 2004 ACS on STN
TI **Transgenics** technology, although promising, not yet in clinical trials

L3 ANSWER 84 OF 85 CIN COPYRIGHT 2004 ACS on STN
TI Genzyme **Transgenics** expands programs to manufacture recombinant proteins in milk

L3 ANSWER 85 OF 85 CIN COPYRIGHT 2004 ACS on STN
TI Genzyme starts first **transgenic** farm in U.S

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4 FILES SEARCHED...

L4 32 L3 AND MAMMAL?

=> display 14
ENTER ANSWER NUMBER OR RANGE (1):1-32
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L4 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Method for the rapid selection of homozygous primary cell lines for the production of **transgenic** animals by somatic cell nuclear transfer

L4 ANSWER 2 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Application of **transgenesis** in livestock for agriculture and biomedicine

L4 ANSWER 3 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Expression of a heterologous protein C in mammary tissue of **transgenic** animals using a long whey acidic protein promoter

L4 ANSWER 4 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Manufacture of human **prothrombin** and **prothrombin** analogs in **transgenic** animals for therapeutic use

L4 ANSWER 5 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Transgenically** produced human **antithrombin** III and its mutants having enhanced antiangiogenic activity

L4 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Method of purifying heterologous proteins

L4 ANSWER 7 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Methods of making **transgenic** and cloned **mammals** such as goats and uses for recombinant protein production

L4 ANSWER 8 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Transgenic** milk as a method for the production of recombinant antibodies

L4 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Methods for production of recombinant peptides with authentic amino termini

L4 ANSWER 10 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Transgenic** animals produced by homologous sequence targeting

L4 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Engineering protein posttranslational modification in **transgenic** non-human **mammals**

L4 ANSWER 12 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Method for the production of biologically active polypeptides by genetic engineering in milk without causing health problems in the **transgenic mammals**

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TI 11. Therapeutic proteins from livestock

L4 ANSWER 14 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Transgenic** pigs produce functional human factor VIII in milk

L4 ANSWER 15 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI Therapeutic proteins from the milk of **transgenic** livestock: Biosynthesis, purification and safety issues.

L4 ANSWER 16 OF 32 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Antithrombin** III with altered glycosylation pattern and increased clearance rate prepared with **transgenic mammal**

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TI α 1-antitrypsin variants carrying **thrombin**-specificity peptides from **antithrombin** III that are inactive against activated protein C

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TI Method for sterilizing a biological material e.g. tissue, blood proteins that is sensitive to radiation, involves irradiating the biological material with radiation.

L4 ANSWER 19 OF 32 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN
TI Sterilizing biological material e.g. milk, that is sensitive to ionizing radiation by reducing residual solvent content of a biological material to protect the material from the ionizing radiation and irradiating the biological material.

L4 ANSWER 20 OF 32 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN
TI New non-human **transgenic mammal** expressing a recombinant human Factor VIII protein in its milk, used to produce recombinant Factor VIII for the treatment of Hemophilia A.

L4 ANSWER 21 OF 32 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN
TI Producing preparation of von Willebrand factor, useful e.g. for treating von Willebrand disease and stimulating wound healing, by treating the pro protein with **thrombin**.

L4 ANSWER 22 OF 32 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
TI **Transgenic** goats in the world pharmaceutical industry of the 21st century.

L4 ANSWER 23 OF 32 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
TI A Pharmacokinetic Model for Dosing of rh AT by Continuous Infusion in patients with Hereditary AT Deficiency.

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TI STN
TI **Transgenic** rabbit producing human growth hormone in milk

L4 ANSWER 25 OF 32 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
TI **Transgenically** produced **antithrombin III**.

L4 ANSWER 26 OF 32 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
TI Therapeutic proteins from the **milk of transgenic** livestock: Biosynthesis, purification and safety issues.

L4 ANSWER 27 OF 32 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
TI Tissue specific and species differences in the glycosylation pattern of **antithrombin III**.

L4 ANSWER 28 OF 32 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
TI Glycosylation patterns of human proteins expressed in **transgenic** goat **milk**.

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TI **Transgenics** go commercial

L4 ANSWER 30 OF 32 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
TI Vitamin K-dependent protein production in **transgenic** animals

L4 ANSWER 31 OF 32 CABA COPYRIGHT 2004 CABI on STN
TI [Pharmaceutical products and organs produced by animals: new prospects for biomedicine].
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TI [What's happening outside France with regard to goat **milk**?].
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L4  32 S L3 AND MAMMAL?

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TI Application of **transgenesis** in livestock for agriculture and biomedicine

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 ACCESSION NUMBER: 2003:923595 CAPLUS
 DOCUMENT NUMBER: 140:229934
 TITLE: Application of **transgenesis** in livestock for agriculture and biomedicine
 AUTHOR(S): Niemann, Heiner; Kues, Wilfried A.
 CORPORATE SOURCE: Department of Biotechnology, Institut fur Tierzucht Mariensee, FAL, Neustadt, 31535, Germany
 SOURCE: Animal Reproduction Science (2003), 79(3,4), 291-317
 PUBLISHER: Elsevier Science B.V.
 DOCUMENT TYPE: Journal; General Review
 LANGUAGE: English
 REFERENCE COUNT: 151 THERE ARE 151 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2001:523984 CAPLUS
 DOCUMENT NUMBER: 135:117920
 TITLE: Expression of a heterologous protein C in mammary tissue of **transgenic** animals using a long whey acidic protein promoter
 INVENTOR(S): Lubon, Henryk; Drohan, William N.; Hennighausen, Lothar; Velander, William H.
 PATENT ASSIGNEE(S): American Red Cross, USA; Virginia Tech Intellectual Properties, Inc.; United States of America as Represented by the Department of Health and Human Services
 SOURCE: U.S., 45 pp., Cont.-in-part of U.S. Ser. No. 184,063, abandoned.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 8
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6262336	B1	20010717	US 1999-321831	19990528
US 5831141	A	19981103	US 1992-943246	19920910
CA 2347579	AA	19950824	CA 1995-2347579	19950217
WO 9835689	A1	19980820	WO 1998-US2638	19980213
W: AU, CA, JP, MX, NZ, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRIORITY APPLN. INFO.:				
US 1991-638995 B2 19910111				
US 1992-943246 A1 19920910				
US 1994-198068 B2 19940218				
US 1995-443184 A2 19950517				
WO 1998-US2638 A2 19980213				

US 1998-184063 B2 19981102
CA 1995-2183546 A3 19950217
US 1997-37145P P 19970214

REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:136931 CAPLUS
DOCUMENT NUMBER: 134:173038
TITLE: Manufacture of human prothrombin and prothrombin analogs in transgenic animals for therapeutic use
INVENTOR(S): Velander, William Hugold
PATENT ASSIGNEE(S): US Transgenics, Inc., USA
SOURCE: PCT Int. Appl., 66 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001011952	A1	20010222	WO 2000-US22616	20000818
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 1999-149936P P 19990819
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:15390 CAPLUS
DOCUMENT NUMBER: 132:74527
TITLE: Methods for production of recombinant peptides with authentic amino termini
INVENTOR(S): Cottingham, Ian Robert; McKee, Colin Martin; Millar, Alan Robert
PATENT ASSIGNEE(S): PPL Therapeutics (Scotland) Limited, UK
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000000625	A1	20000106	WO 1999-GB1907	19990616
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

AU 9943805	A1	20000117	AU 1999-43805	19990616
EP 1090132	A1	20010411	EP 1999-926622	19990616
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 2002146779	A1	20021010	US 2000-746945	20001221
PRIORITY APPLN. INFO.:				
			GB 1998-13912	A 19980626
			US 1998-98281P	P 19980828
			WO 1999-GB1907	W 19990616

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1999:656017 CAPLUS
 DOCUMENT NUMBER: 131:282377
 TITLE: Engineering protein posttranslational modification in transgenic non-human mammals
 INVENTOR(S): Lubon, Henryk; Drohan, William N.; Paleyanda, Rekha K.
 PATENT ASSIGNEE(S): American Red Cross, USA
 SOURCE: U.S., 20 pp., Cont.-in-part of U.S. 5,589,604.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 8
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5965789	A	19991012	US 1995-434834	19950504
US 5831141	A	19981103	US 1992-943246	19920910
US 5589604	A	19961231	US 1994-247484	19940523
CA 2347579	AA	19950824	CA 1995-2347579	19950217
CA 2220109	AA	19961107	CA 1996-2220109	19960506
WO 9634966	A2	19961107	WO 1996-US6121	19960506
W: AU, CA, JP, MX				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9663474	A1	19961121	AU 1996-63474	19960506
JP 11509404	T2	19990824	JP 1996-533476	19960506
PRIORITY APPLN. INFO.:				
			US 1991-638995	B1 19910111
			US 1992-943246	A2 19920910
			US 1994-198068	B1 19940208
			US 1994-247484	A2 19940523
			CA 1995-2183546	A3 19950217
			US 1995-434834	A 19950504
			WO 1996-US6121	W 19960506

REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1999:622339 CAPLUS
 DOCUMENT NUMBER: 131:224470
 TITLE: Method for the production of biologically active polypeptides by genetic engineering in milk without causing health problems in the transgenic mammals
 INVENTOR(S): Hyttinen, Juha-Matti; Korhonen, Veli-Pekka; Janne, Juhani
 PATENT ASSIGNEE(S): Pharming B.V., Neth.
 SOURCE: U.S., 10 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5959171	A	19990928	US 1994-291074 US 1994-291074	19940817 19940817
PRIORITY APPLN. INFO.:				
REFERENCE COUNT:	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L5 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1998:638161 CAPLUS
 DOCUMENT NUMBER: 130:48728
 TITLE: 11. Therapeutic proteins from livestock
 AUTHOR(S): Garner, Ian; Colman, Alan
 CORPORATE SOURCE: PPL Therapeutics, Edinburgh, EH 25 9PP, UK
 SOURCE: Modern Genetics (1998), 4(Animal Breeding), 215-227
 CODEN: MGENF2; ISSN: 1056-4497
 PUBLISHER: Harwood Academic Publishers
 DOCUMENT TYPE: Journal; General Review
 LANGUAGE: English
 REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1997:656067 CAPLUS
 DOCUMENT NUMBER: 127:342377
 TITLE: Transgenic pigs produce functional human factor VIII in milk
 AUTHOR(S): Paleyanda, Rekha K.; Velander, William H.; Lee, Timothy K.; Scandella, Dorothea H.; Gwazdauskas, Francis C.; Knight, James W.; Hoyer, Leon W.; Drohan, William N.; Lubon, Henryk
 CORPORATE SOURCE: Plasma Deriv. Dep., Holland Lab., Rockville, MD, 20855, USA
 SOURCE: Nature Biotechnology (1997), 15(10), 971-975
 CODEN: NABIF9; ISSN: 1087-0156
 PUBLISHER: Nature America
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1996:363602 CAPLUS
 DOCUMENT NUMBER: 125:80523
 TITLE: α 1-antitrypsin variants carrying thrombin-specificity peptides from antithrombin III that are inactive against activated protein C
 INVENTOR(S): Hopkins, Paul C. R.; Carrell, Robin; Crowther, Damian; Stone, Stuart
 PATENT ASSIGNEE(S): Ppl Therapeutics (Scotland) Ltd., UK
 SOURCE: PCT Int. Appl., 50 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9610638	A1	19960411	WO 1995-GB2155	19950912
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				

RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG	AU 9534794	A1 19960426	AU 1995-34794	19950912
	ZA 9507852	A 19970318	ZA 1995-7852	19950918
PRIORITY APPLN. INFO.:			GB 1994-19804	A 19940930
			GB 1995-2138	A 19950203
			WO 1995-GB2155	W 19950912

L5 ANSWER 10 OF 16 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN
 ACCESSION NUMBER: 2004-191156 [18] WPIDS
 DOC. NO. NON-CPI: N2004-151646
 DOC. NO. CPI: C2004-075387
 TITLE: Method for sterilizing a biological material e.g. tissue, blood proteins that is sensitive to radiation, involves irradiating the biological material with radiation.
 DERWENT CLASS: A96 B04 C07 D22 P34
 INVENTOR(S): BURGESS, W; CALVERT, G; DROHAN, W N; KENT, R S; LYNCH, T; MACPHEE, M; MANN, D; MIEKKA, S; BURGESS, W H; MACPHEE, M J; MANN, D M
 PATENT ASSIGNEE(S): (BURG-I) BURGESS W; (CALV-I) CALVERT G; (DROH-I) DROHAN W N; (KENT-I) KENT R S; (LYNC-I) LYNCH T; (MACP-I) MACPHEE M; (MANN-I) MANN D; (MIEK-I) MIEKKA S; (CLEA-N) CLEARANT INC
 COUNTRY COUNT: 103
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 2004009137	A2	20040129 (200418)*	EN 106		
RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW					
US 2004033160	A1	20040219 (200418)			
AU 2003253947	A1	20040209 (200450)			

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2004009137	A2	WO 2003-US22229	20030717
US 2004033160	A1	US 2002-197249	20020718
AU 2003253947	A1	AU 2003-253947	20030717

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2003253947	A1 Based on	WO 2004009137

PRIORITY APPLN. INFO: US 2002-197249 20020718

L5 ANSWER 11 OF 16 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN
 ACCESSION NUMBER: 2004-121525 [12] WPIDS
 DOC. NO. NON-CPI: N2004-097378
 DOC. NO. CPI: C2004-048657
 TITLE: Sterilizing biological material e.g. milk, that is sensitive to ionizing radiation by reducing residual solvent content of a biological material to protect the material from the ionizing radiation and irradiating the

DERWENT CLASS: biological material.
 INVENTOR(S): B04 D13 D22 P34
 BURGESS, W; DROHAN, W; KENT, R; MACPHEE, M; MANN, D;
 BURGESS, W H; DROHAN, W N; KENT, R S; MACPHEE, M J; MANN,
 D M
 PATENT ASSIGNEE(S): (BURG-I) BURGESS W; (DROH-I) DROHAN W; (KENT-I) KENT R;
 (MACP-I) MACPHEE M; (MANN-I) MANN D; (CLEA-N) CLEARANT
 INC
 COUNTRY COUNT: 103
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
US 2004013562	A1	20040122	(200412)*	44	
WO 2004009138	A2	20040129	(200413)	EN	
RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW					
AU 2003252001	A1	20040209	(200450)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 2004013562	A1	US 2002-197251	20020718
WO 2004009138	A2	WO 2003-US22400	20030718
AU 2003252001	A1	AU 2003-252001	20030718

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2003252001	A1 Based on	WO 2004009138

PRIORITY APPLN. INFO: US 2002-197251 20020718

L5 ANSWER 12 OF 16 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN
 ACCESSION NUMBER: 2002-479283 [51] WPIDS
 CROSS REFERENCE: 1996-188439 [19]
 DOC. NO. NON-CPI: N2002-378515
 DOC. NO. CPI: C2002-136305
 TITLE: New non-human **transgenic mammal**
 expressing a recombinant human Factor VIII protein in its
 milk, used to produce recombinant Factor VIII for
 the treatment of Hemophilia A.

DERWENT CLASS: B04 D16 P14
 INVENTOR(S): DROHAN, W N; LUBON, H; VELANDER, W H
 PATENT ASSIGNEE(S): (DROH-I) DROHAN W N; (LUBO-I) LUBON H; (VELA-I) VELANDER
 W H
 COUNTRY COUNT: 1
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
US 2002062492	A1	20020523	(200251)*	6	

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
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US 2002062492	A1 Div ex	US 1994-305518	19940913
	Div ex	US 1999-262017	19990304
		US 2001-849406	20010507

FILING DETAILS:

PATENT NO	KIND	PATENT NO
US 2002062492	A1 Div ex	US 6255554

PRIORITY APPLN. INFO: US 1994-305518 19940913; US
 1999-262017 19990304; US
 2001-849406 20010507

L5 ANSWER 13 OF 16 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN
 ACCESSION NUMBER: 2000-558293 [51] WPIDS
 DOC. NO. CPI: C2000-166265
 TITLE: Producing preparation of von Willebrand factor, useful
 e.g. for treating von Willebrand disease and stimulating
 wound healing, by treating the pro protein with
thrombin.
 DERWENT CLASS: B04
 INVENTOR(S): SCHWARZ, H; TURECEK, P; VARADI, K
 PATENT ASSIGNEE(S): (IMMO) IMMUNO AG; (BAXT) BAXTER AG
 COUNTRY COUNT: 90
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 2000049047	A1	20000824 (200051)*	GE 29		
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW					
W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
AT 9900283	A	20001015 (200060)			
AU 2000026459	A	20000904 (200103)			
AT 407750	B	20010415 (200130)			

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2000049047	A1	WO 2000-AT39	20000215
AT 9900283	A	AT 1999-283	19990219
AU 2000026459	A	AU 2000-26459	20000215
AT 407750	B	AT 1999-283	19990219

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2000026459	A Based on	WO 2000049047
AT 407750	B Previous Publ.	AT 9900283

PRIORITY APPLN. INFO: AT 1999-283 19990219

L5 ANSWER 14 OF 16 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN
 ACCESSION NUMBER: 2003:343602 BIOSIS
 DOCUMENT NUMBER: PREV200300343602
 TITLE: **Transgenic** rabbit producing human growth hormone
 in milk.

AUTHOR(S): Lipinski, Daniel; Jura, Jolanta; Kalak, Robert; Plawski, Andrzej; Kala, Marta; Szalata, Marlena; Jarmuz, Malgorzata; Korcz, Aleksandra; Slomska, Karolina; Jura, Jacek; Gronek, Piotr; Smorag, Zdzislaw; Pienkowski, Marek; Slomski, Ryszard [Reprint Author]
CORPORATE SOURCE: Department of Biochemistry and Biotechnology, August Cieszkowski Agricultural University of Poznan, ul. Wolynska 35, 60-637, Poznan, Poland
slomski@au.poznan.pl
SOURCE: Journal of Applied Genetics, (2003) Vol. 44, No. 2, pp. 165-174. print.
ISSN: 1234-1983.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 23 Jul 2003
Last Updated on STN: 23 Jul 2003

L5 ANSWER 15 OF 16 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
ACCESSION NUMBER: 1997:27289298 BIOTECHNO
TITLE: Vitamin K-dependent protein production in
transgenic animals
AUTHOR: Lubon H.; Paleyanda R.K.
CORPORATE SOURCE: Dr. H. Lubon, 15601 Crabbs Branch Way, Rockville, MD
20855, United States.
E-mail: lubon@usa.redcross.org
SOURCE: Thrombosis and Haemostasis, (1997), 78/1 (532-536), 65
reference(s)
CODEN: THHADQ ISSN: 0340-6245
DOCUMENT TYPE: Journal; Conference Article
COUNTRY: Germany, Federal Republic of
LANGUAGE: English
SUMMARY LANGUAGE: English

L5 ANSWER 16 OF 16 CABA COPYRIGHT 2004 CABI on STN
ACCESSION NUMBER: 1999:39094 CABA
DOCUMENT NUMBER: 19990401034
TITLE: Pharmaceutical products and organs produced by
animals: new prospects for biomedicine
Tiere als Arzneimittel- und Organlieferanten: neue
Perspektiven in der Biomedizin
AUTHOR: Niemann, H.
CORPORATE SOURCE: Bundesforschungsanstalt fur Landwirtschaft (FAL),
Institut fur Tierzucht und Tierverhalten, Mariensee,
31535 Neustadt a. Rbg., Germany.
SOURCE: Forschungs-Report, Ernahrung Landwirtschaft Forsten,
(1998) No. 2, pp. 9-13.
ISSN: 0931-2277
DOCUMENT TYPE: Journal
LANGUAGE: German
ENTRY DATE: Entered STN: 19990414
Last Updated on STN: 19990414

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(FILE 'HOME' ENTERED AT 16:15:18 ON 30 DEC 2004)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,
BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,
CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 16:15:27 ON 30 DEC 2004

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SEA ?THROMBIN AND TRANSGEN? AND MILK

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1* FILE ADISINSIGHT
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14 FILE CABA
39 FILE CAPLUS
4* FILE CEABA-VTB
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2 FILE DISSABS
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0* FILE DRUGU
0* FILE EMBAL
15 FILE EMBASE
4* FILE ESBIOBASE
0* FILE FEDRIP
0* FILE FOMAD
0* FILE FOREGE
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17 FILE IFIPAT
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0* FILE IMSPRODUCT
0* FILE IMSRESEARCH
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14 FILE MEDLINE
0* FILE NIOSHTIC
0* FILE NUTRACEUT
0* FILE OCEAN
3 FILE PASCAL
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0* FILE PHARMAML
12* FILE PROMT
14 FILE SCISEARCH
0* FILE SYNTHLINE
5 FILE TOXCENTER
2841 FILE USPATFULL
130 FILE USPAT2
0* FILE VETB
0* FILE VETU
18 FILE WPIDS
18 FILE WPINDEX
L1 QUE ?THROMBIN AND TRANSGEN? AND MILK

FILE 'CAPLUS, CIN, WPIDS, BIOSIS, BIOTECHNO, EMBASE, CABA, MEDLINE, SCISEARCH' ENTERED AT 16:18:23 ON 30 DEC 2004

L2 162 S ?THROMBIN AND TRANSGEN? AND MILK
L3 85 DUP REM L2 (77 DUPLICATES REMOVED)
L4 32 S L3 AND MAMMAL?
L5 16 S L4 AND (PROTHROMBIN OR THROMBIN)